

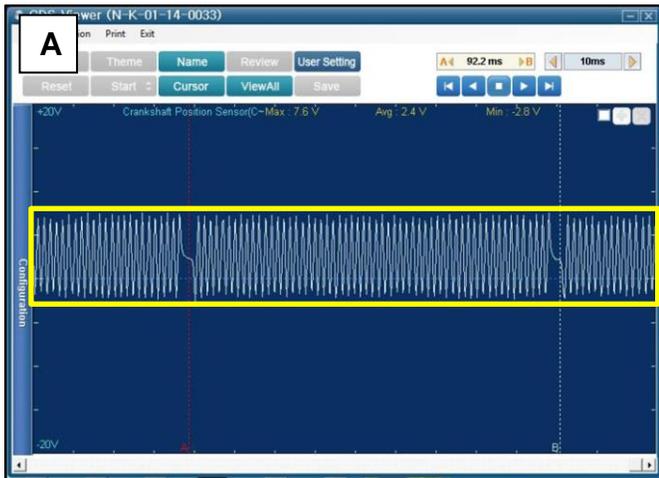
	<b>GROUP</b> <b>Engine</b>	<b>MODEL</b> <b>All Models w/3.3L GDI Engine</b>
	<b>NUMBER</b> <b>PS417</b>	<b>DATE</b> <b>July 2015</b>



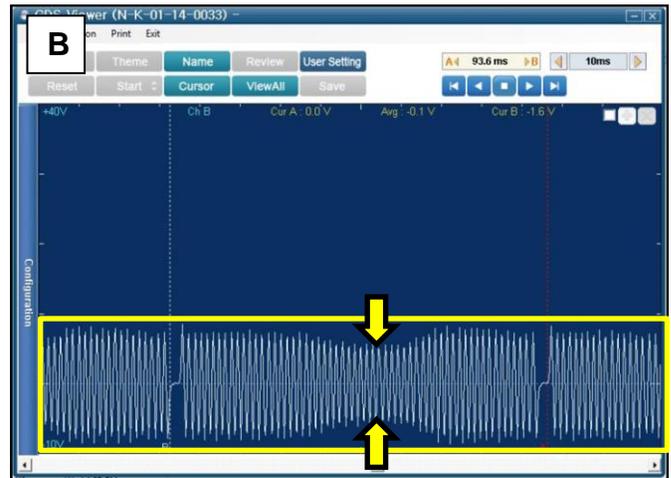
## TECHNICAL OPERATIONS

**SUBJECT: DTC P0315 - CRANKSHAFT POSITION (CKP) SENSOR VARIATION NOT LEARNED**

When encountering a customer complaint of engine misfire with a Malfunction Indicator Light (MIL) on in the dash, check for the presence of DTC P0315 – Crankshaft Position Sensor (CKP) Variation Not Learned. Use the VMI to view the scope pattern of the crankshaft position sensor signal. Verify a good equal crankshaft sensor pattern is present with no dips or variation, as shown in Figure A, in the sign wave pattern. If the pattern is identical to Figure A, Use GDS/KDS to perform a crank sensor relearn procedure. If the pattern shows a dip or variation, as shown in Figure B, replace the flex plate to resolve the concern.



Good pattern



Crankshaft Sensor deviation